

FIG. 1A

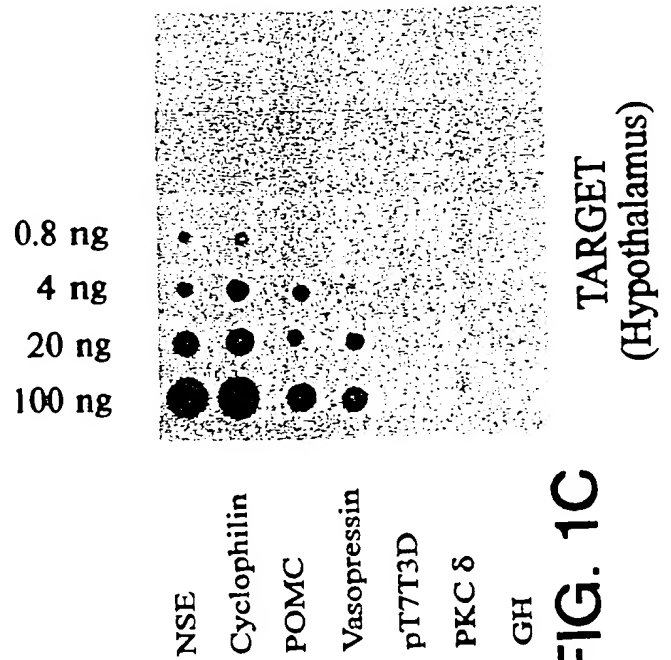


FIG. 1C

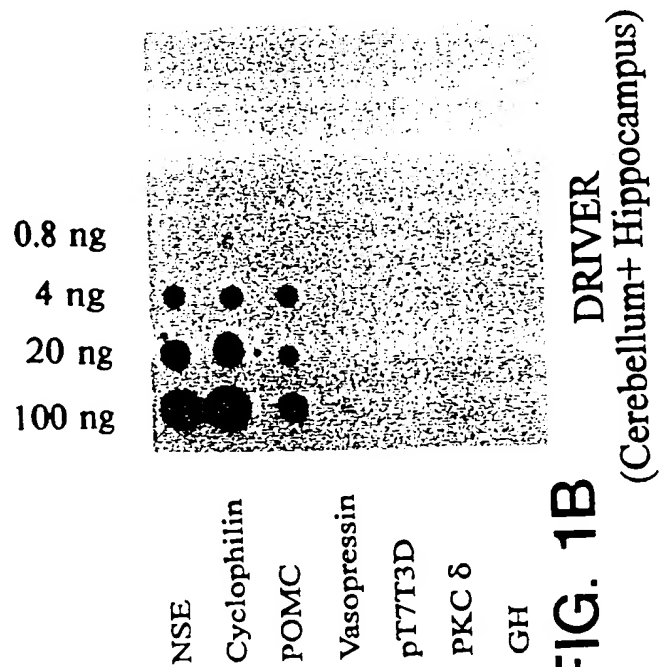


FIG. 1B

D1 D2 T

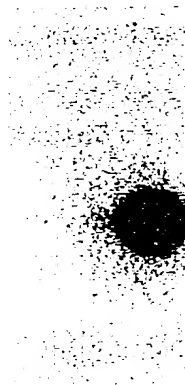


FIG. 2A

D1 D2 T



FIG. 2B

D1 D2 T

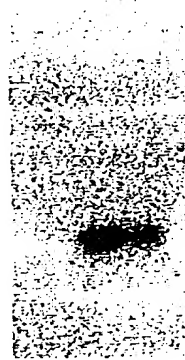


FIG. 2C

D1 D2 T



FIG. 2D

FIG. 3A

Clone 2

Clone 35

Brain
Olfactory bulb
Cortex
Hippocampus
Hypothalamus
Hypothalamus
Thalamus
Cerebellum
Pituitary
Liver
Kidney
Heart



FIG. 3B

Clone 6

Clone 10

Clone 12

Clone 20

Clone 67

Brain
Olfactory bulb
Cortex
Hippocampus
Hypothalamus
Hypothalamus
Thalamus
Cerebellum
Pituitary
Liver
Kidney
Heart

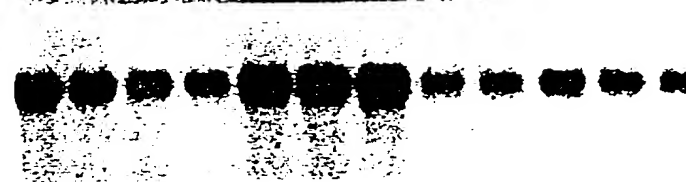


FIG. 3C

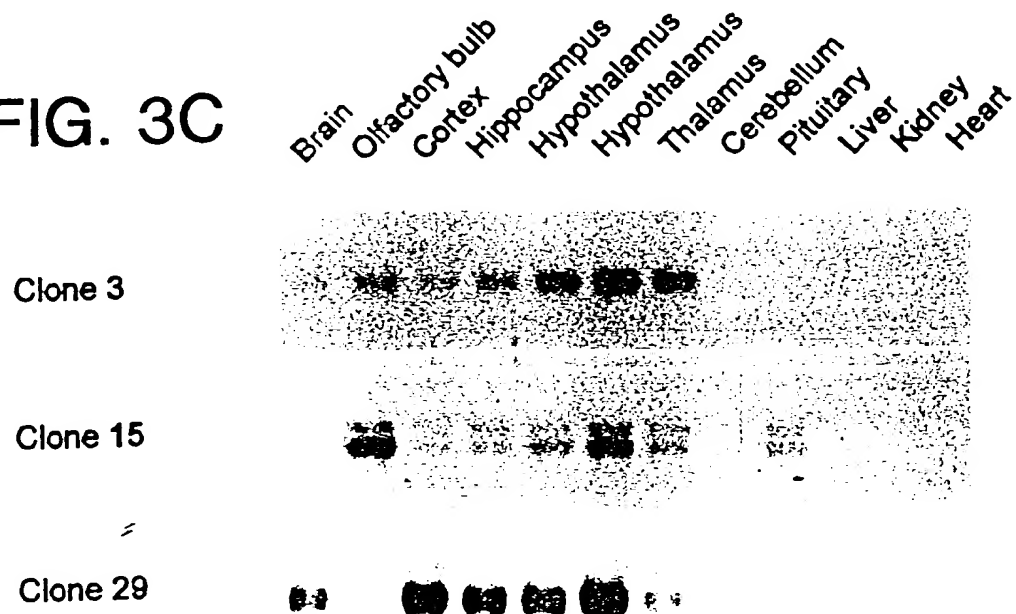
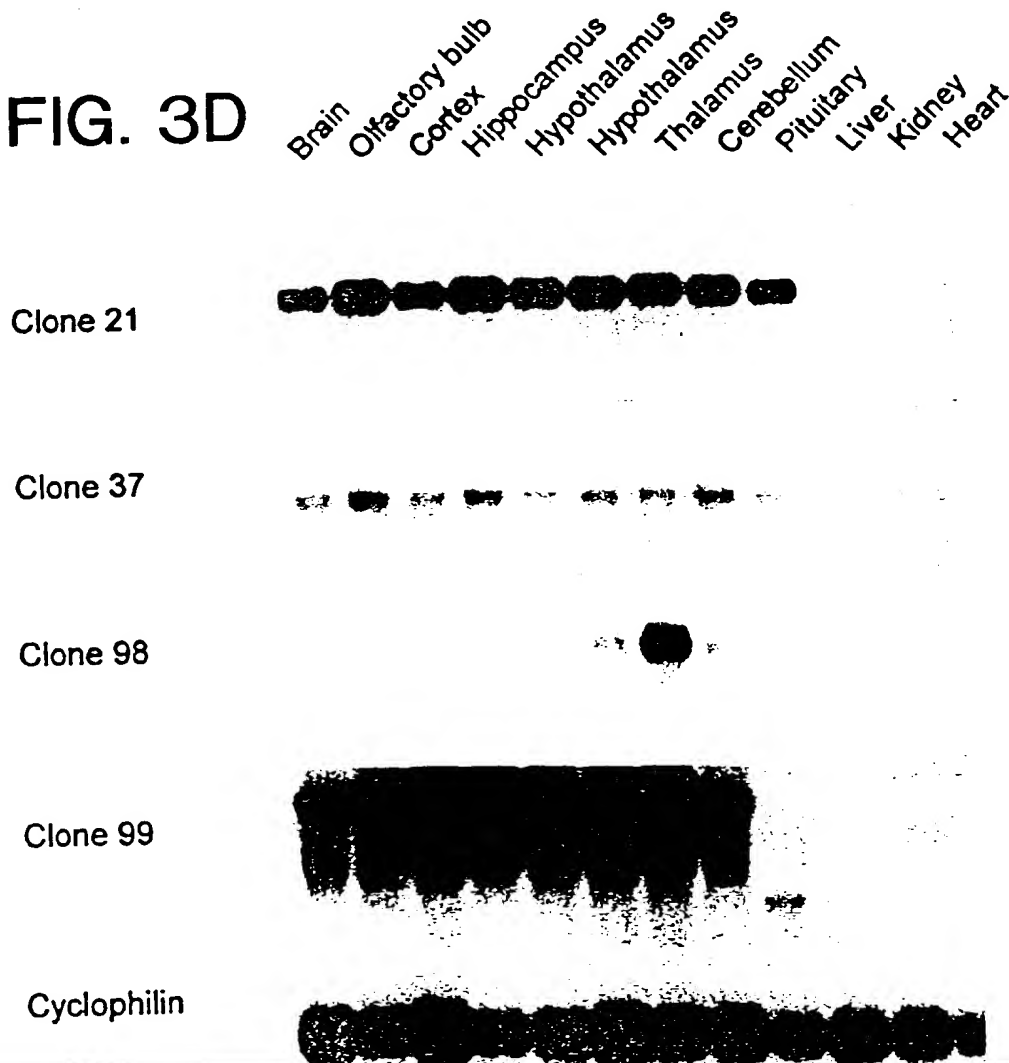


FIG. 3D



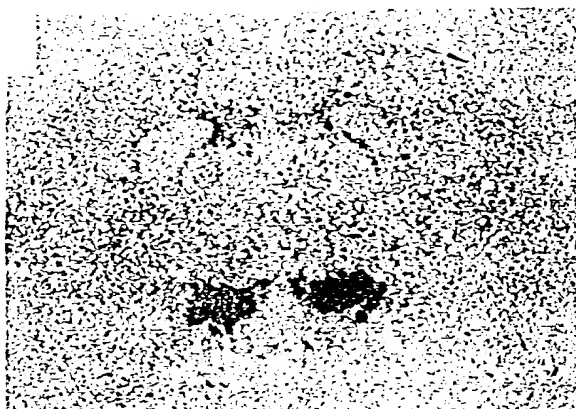


FIG. 4A

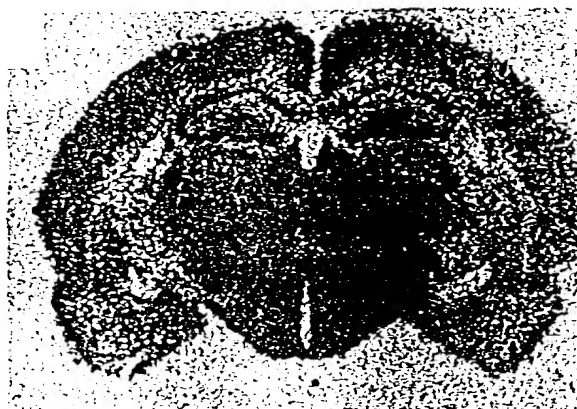


FIG. 4D



FIG. 4B

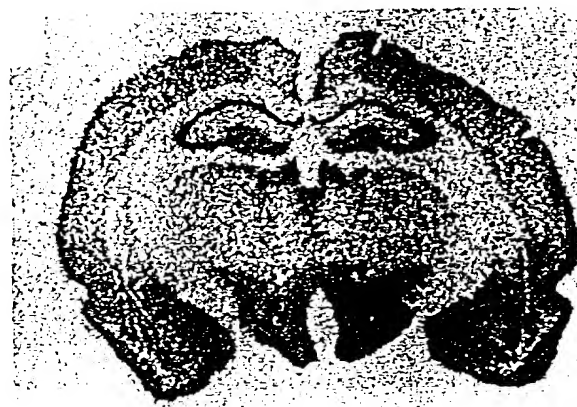


FIG. 4E



FIG. 4C

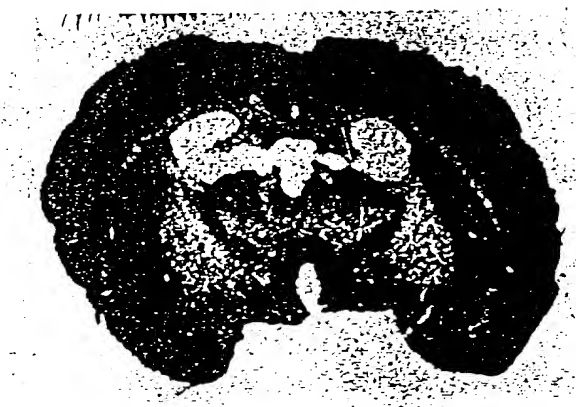


FIG. 4F

FIG. 5A

M	N	L/F	P	S	T	K	V	P	W	A	A	V	T	L	L
ATG	AAC	CTT	CCT	TCT	ACA	AAG	GTT	CCC	TGG	GCC	GCC	GTG	ACG	CTG	CTG
ATG	AAC	TTT	CCT	TCT	ACA	AAG	GTT	CCC	TGG	GCC	GCC	GTG	ACG	CTG	CTG
		*													
L	L	L	L	L	P	P	A	L	L	S	L	G	V	D	A
CTG	CTG	CTA	CTG	CTG	CCG	CCG	GCG	CTG	CTG	TCG	CTT	GGG	GTG	GAC	GCG
CTG	CTG	CTA	CTG	CTG	CCG	CCG	GCG	CTG	CTG	TCG	CTT	GGG	GTG	GAC	GCA
															*
Q	P	L	P	D	C	C	R	Q	K	T	C	S	C	R	L
CAG	CCT	CTG	CCC	GAC	TGC	TGT	CGC	CAG	AAG	ACG	TGT	TCC	TGC	CGT	CTC
CAG	CCT	CTG	CCC	GAC	TGC	TGT	CGC	CAG	AAG	ACG	TGT	TCC	TGC	CGT	CTC
Y	E	L	L	H	G	A	G	N	H	A	A	G	I	L	T
TAC	GAA	CTG	TTG	CAC	GGA	GCT	GGC	AAC	CAC	GCC	GCG	GGC	ATC	CTC	ACT
TAC	GAA	CTG	TTG	CAC	GGA	GCT	GGC	AAC	CAC	GCT	GCG	GGT	ATC	CTG	ACT
										*		*		*	
L	G	K	R	R	P	G	P	P	G	L	Q	G	R	L	Q
CTG	GGA	AAG	CGG	CGA	CCT	GGA	CCC	CCA	GGC	CTC	CAA	GGA	CGG	CTG	CAG
CTG	GGA	AAG	CGG	CGG	CCT	GGA	CCT	CCA	GGC	CTC	CAG	GGA	CGG	CTG	CAG
				*			*				*				
R	L	L	Q	A	N	G	N	H	A	A	G	I	L	T	M
CGC	CTC	CTT	CAG	GCC	AAC	GGT	AAC	CAC	GCA	GCT	GGC	ATC	CTG	ACC	ATG
CGC	CTC	CTT	CAG	GCC	AAC	GGT	AAC	CAC	GCA	GCT	GGC	ATC	CTG	ACC	ATG
G	R	R	A	G	A	E	L	E	P	Y/H	P	C	P/S	G	R
GGC	CGC	CGC	GCA	GGC	GCA	GAG	CTA	GAG	CCA	TAT	CCC	TGC	CCT	GGT	CGC
GGC	CGC	CGC	GCA	GGC	GCA	GAG	CTA	GAG	CCA	CAT	CCC	TGC	TCT	GGT	CGC
										*			*		
R/G	C	P	T	A/V	T	A/T	T	A	L	A	P	R	G	G	S
CGC	TGT	CCG	ACT	GCA	ACC	GCC	ACC	GCT	TTA	GCG	CCC	CGG	GGC	GGA	TCC
GGC	TGT	CCG	ACC	GTA	ACT	ACC	ACC	GCT	TTA	GCA	CCC	CGG	GGA	GGG	TCC
*			*	*	*	*	*			*			*	*	
R/G	V														
AGA	GTC	TGA													
GGA	GTC	TGA													
*															

FIG. 5B

consensus:	RL LL GNHAAGILT G
hert1:	LGVDAQPLPDCCRQKTCSCRLYELLHGAGNHAAGILTLG
hert2:	PGPPGLQGRLLQRLQLQANGNHAAGILTMG
SECRETIN:	HSDGTFTSKLSRLRDSARLQRLQLQGLV HSDGTFTSK

* * * * *

FIG. 6A

FIG. 6A

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541 AGCTGGCAACATGCTAGGCACAGCCTGTGGGACCCCAGGATATGTGGCCCCAGAGCTCCT 600
-----+-----+-----+-----+-----+-----+
TCGACCGTTGTACGATCCGTGTGCGACACCCTGGGGTCCCTATACACCGGGGTCTCGAGGA
A G N M L G T A C G T P G Y V A P E L L

601 GGAGCAGAAACCCTACGGGAAGGCCGTAGATGTGTGGGCCCTGGGTGTCATCTCCTACAT 660
-----+-----+-----+-----+-----+-----+
CCTCGTCTTTGGGATGCCCTTCCGGCATCTACACACCCGGGACCCACAGTAGAGGATGTA
E Q K P Y G K A V D V W A L G V I S Y I

661 CCTGCTGTGTGGGTACCCCCCTTCTATGATGAGAGCGATCCTGAACTCTTCAGCCAGAT 720
-----+-----+-----+-----+-----+-----+
GGACGACACACCCATGGGGGGGAAGATACTACTCTCGCTAGGACTTGAGAAGTCGGTCTA
L L C G Y P P F Y D E S D P E L F S Q I

721 TCTGAGGGCCAGCTACGAGTTTGACTCTCCCTTTTGGGATGACATCTCAGAATCAGCCAA 780
-----+-----+-----+-----+-----+-----+
AGACTCCCGGTGCGATGCTCAAACCTGAGAGGGAAAACCCTACTGTAGAGTCTTAGTCGGTT
L R A S Y E F D S P F W D D I S E S A K

781 AGACTTCATTTCGGCACCTTCTGGAACGTGATCCCCAGAAGAGGTTACCTGCCAACAGGC 840
-----+-----+-----+-----+-----+-----+
TCTGAAGTAAGCCGTGGAAGACCTTGCACCTAGGGGTCTTCTCCAAGTGGACGGTTGTCCG
D F I R H L L E R D P Q K R F T C Q Q A

841 CTTACAGCATCTCTGGATCTCTGGGGATGCAGCCTTGGACAGGGACATCCTAGGTTCTGT 900
-----+-----+-----+-----+-----+-----+
GAATGTCGTAGAGACCTAGAGACCCCTACGTGCGAACCTGTCCCTGTAGGATCCAAGACA
L Q H L W I S G D A A L D R D I L G S V

901 CAGTGAGCAGATCCAGAAGAATTTTGCCAGGACCCACTGGAAGCGTGCATTCAATGCCAC 960
-----+-----+-----+-----+-----+-----+
GTCACCTCGTCTAGGTCTTCTTAAAACGGTCCTGGGTGACCTTCGCACGTAAGTTACGGTG
S E Q I Q K N F A R T H W K R A F N A T

961 ATCATTCCCTACGTCACATCCGTAAGCTGGGACAGAGCCCAGAGGGTGAGGAGGCCCTCCAG 1020
-----+-----+-----+-----+-----+-----+
TAGTAAGGATGCAGTGTAGGCATTGACCCCTGTCTCGGGTCTCCCACTCCTCCGGAGGTC
S F L R H I R K L G Q S P E G E E A S R

1021 GCAGGGTATGACCCGTACAGCCACCCAGGCCTTGGGACTAGCCAGTCTCCCAAGTGGTG 1080
-----+-----+-----+-----+-----+-----+
CGTCCCATACTGGGCAGTGTGCGGTGGGTCCGGAACCCTGATCGGTGAGAGGGTTCCACCAC
Q G M T R H S H P G L G T S Q S P K W V

FIG. 6B

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1081 ACAACCAGGTGGATGCCAAGGAAGGCCAAGTGGACTGACTCCTAGCTTTTCTTTCTCTCCA 1140
-----+-----+-----+-----+-----+
TGTTGGTCCACCTACGGTTCCTTCCGGTTCACCTGACTGAGGATCGAAAAGAAAGGAGGT
T T R W M P R K A K W T D S

1141 GCCCTTTTGATCTCCTTCCCTGATCCTTGTCCCCCGGACTGGCCTCTGTTGGAAAGTCCA 1200
-----+-----+-----+-----+-----+
CGGGAAAACCTAGAGGAAGGGACTAGGAACAGGGGGCCTGACCGGAGACAACCTTTCAGGT

1201 AGACCGTGGGTGTGATGCATGGCACTGGGGTATGGGGCTTCCCAAGTATGTCCCCAGCCT 1260
-----+-----+-----+-----+-----+
TCTGGCACCCACACTACGTACCGTGACCCCATACCCCGAAGGGTTCATACAGGGGTCGGA

1261 CTGTCCTTTGTTGCTGCCACCCTCTATGGAACTGAGGAGGTATTCAAAAATGGATTG 1320
-----+-----+-----+-----+-----+
GACAGGAAACAACGACGGTGGGAGATACCTTTGACTCCTCCATAAGTTTTTACCTAAACC

1321 GGGCCATCCTTCCTGCACCTTGACGCACATATGCATTGCGTGGCTGTTCTGTGCTTTGC 1380
-----+-----+-----+-----+-----+
CCCCGTAGGAAGGACGTGGAACGTGCGTGATACGTAACGCACCGACAAGACACGAAACG

1381 TGA CTGTGGGTGGTCTGCTTGTGTTGTAGCCCTTTAGTTCCTCCTCTTTCCAACCAATA 1440
-----+-----+-----+-----+-----+
ACTGACACCCACCAGGACGAACACAACATCGGGAAATCAAGGAGGAGAAAGGTTGGTTAT

1441 AAGACAAACAGACAATG 1458
-----+-----
TTCTGTTTGTCTTGTTAC

FIG. 6C

